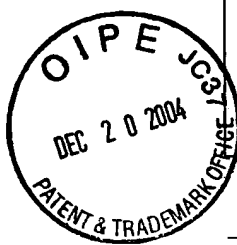


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Dated: 12/17/04 Signature: *Susan Lanney*
(Susan Lanney)

Docket No.: COTH-P02-514
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Kurz et al.

Application No.: 10/725945

Confirmation No.: 2847

Filed: December 1, 2003

Art Unit: 1634

For: METHODS FOR GENERATING
CATALYTIC PROTEINS

Examiner: Not Yet Assigned

INFORMATION DISCLOSURE STATEMENT (IDS)

MS Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 CFR 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement is filed before the mailing date of a first Office Action on the merits as far as is known to the undersigned (37 CFR 1.97(b)(3)).

Copies of the references on the PTO/SB/08 are not provided because they were previously cited by or submitted to the Office in a prior application number 09/795037, filed February 26, 2001 and relied upon in this application for an earlier filing date under 35 U.S.C. 120.

In accordance with 37 CFR 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR 1.56(a) exists. In accordance with 37 CFR 1.97(h), the filing of this

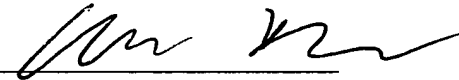
Information Disclosure statement shall not be construed to be an admission that any patent, publication or other information referred to therein is "prior art" for this invention unless specifically designated as such.

It is submitted that the Information Disclosure Statement is in compliance with 37 CFR 1.98 and the Examiner is respectfully requested to consider the listed references.

The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 18-1945, under Order No. COTH-P02-514.

Dated: December 17, 2004

Respectfully submitted,

By 

Xuqiong Wu

Registration No.: 55,745

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PTO/SB/08a/b (08-03)

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Substitute for form 1449A/B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	10/725945
				Filing Date	December 1, 2003
				First Named Inventor	Markus Kurz
				Art Unit	1634
				Examiner Name	Not Yet Assigned
Sheet	1	of	2	Attorney Docket Number	COTH-P02-514

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	AA	5,731,146	03-24-1998	Duck, et al.	
	AB	5,795,718	08-18-1998	Eisenbeis	
	AC	5,807,718	09-15-1998	Joyce, et al.	
	AD	5,932,435	08/1999	Atkins	
	AE	6,077,694	06/2000	Medabalimi	
	AF	6,207,446-B1	03-27-2001	Szostak, et al.	
	AG	6,214,553-B1	04-10-2001	Szostak, et al.	
	AH	6,258,558-B1	07-10-2001	Szostak, et al.	
	AI	6,261,804-B1	07-17-2001	Szostak, et al.	
	AJ	6,281,344-B1	08-28-2001	Szostak, et al.	
	AK	6,361,943-B1	03-26-2002	Yanagawa, et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
	BA	WO-00/32823-A1	06-08-2000			
	BB	WO-00/47775-A1	08-17-2000			
	BC	WO-96/40723	12-19-1996			
	BD	WO-97/40141	10-30-1997			
	BE	WO-98/31700	07-23-1998	Szostak		

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NON PATENT LITERATURE DOCUMENTS			
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	CA	Arnold, "Design by Directed Evolution," Acc. Chem. Res., 31:125-131 (1998).	
	CB	Atwell, et al., "Selection for Improved Subtiligases by Phage Display," Proc. Natl. Acad. Sci. USA, 96:9497-9502 (1999).	
	CC	Banzon, et al., "Mechanism-Based inactivation of Phosphotriesterase by Reaction of a Critical Histidine with a Ketene intermediate," Biochemistry, 34:743-749 (1995).	
	CD	Beguin, "Hybrid Enzymes," Current Opinion in Biotechnology, 10:336-340 (1999).	
	CE	Bornscheuer, "Directed Evolution of Enzymes," Agnew. Chem. Int. Ed., 37:3105-3108 (1998).	
	CF	Janda, et al., "Chemical Selection for Catalysis in Combinatorial Antibody Libraries," Science, 275:945-948 (1997).	
	CG	Janda, et al., "Direct Selection for a Catalytic Mechanism From Combinatorial Antibody Libraries," Proc. Natl. Acad. Sci. USA, 91:2532-2536 (1994).	
	CH	Jestin, et al., "A Method For the Selection of Catalytic Activity Using Phage Display and Proximity Coupling," Agnew. Chem. Int. Ed., 38:1124-1127 (1999).	
	CI	Kurz, et al., "Psoralen Photo-Crosslinked mRNA-Puromycin Conjugates: A Novel Template for	

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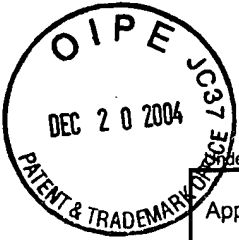
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				Art Unit	1634
				Examiner Name	Not Yet Assigned
Sheet	2	of	2	Attorney Docket Number	COTH-P02-514

		the Rapid and Facile Preparation of mRNA-Protein Fusions," Nucleic Acids Research, 28:(e83) I-V (2000).	
	CJ	Lerner, et al., "At the Crossroads of Chemistry and Immunology: Catalytic Antibodies," Science, 252:659-667 (1991).	
	CK	Li, et al., "Structure-Activity Studies of the Inhibition of Serine (beta)-Lactamases by Phosphonate Monoesters," Bioorganic & Medicinal Chemistry, 5:1783-1788 (1997).	
	CL	Pedersen, et al., "A method for directed evolution and functional cloning of enzymes," Proc. Natl. Acad. Sci. USA, 95:10523-10528 (1998).	
	CM	Perler, et al., "Protein Splicing and Autoproteolysis Mechanisms," Current Opinion in Chemical Biology, 1:292-299 (1997).	
	CN	Pieles, et al., "Preparation of a Novel Psoralen Containing Deoxyadenosine Building Block for the Facile Solid Phase Synthesis of Psoralen-Modified Oligonucleotides for a Sequence Specific Crosslink to a Given Target Sequence," Nucleic Acids Research, 17:8967-8979 (1989).	
	CO	Pieles, et al., "Psoralen Covalently Linked to Oligodeoxyribonucleotides: Synthesis, Sequence Specific Recognition of DNA and Photo-Cross-Linking to Pyrimidine Residues of DNA," Nucleic Acids Research, 17:285-299 (1989).	
	CP	Roberts, "Totally in vitro Protein Selection Using mRNA-Protein Fusions and Ribosome Display," Current Opinion in Chemical Biology, 3:268-273 (1999).	
	CQ	Roberts, et al., "RNA-Peptide Fusions for the in vitro," Proc. Natl. Acad. Sci. USA, 94:12297-12302 (1997).	
	CR	Skandalis, et al., "Creating Novel Enzymes by Applied Molecular Evolution," Chemistry & Biology, 4:889-898 (1997).	
	CS	Steipe, "Evolutionary Approaches to Protein Engineering," Curr. Top. Microbiol. Immunol., 243:55-86 (1999).	
	CT	Tang, et al., "Selection of Linkers for a Catalytic Single-Chain Antibody Using Phage Display Technology," The Journal of Biological Chemistry, 271:15682-15686 (1996).	
	CU	Vanwetswinkel, et al., "Selection of (beta)-Lactamases and Penicillin Binding Mutants From a Library of Phage Displayed TEM-1 (beta)-Lactamase Randomly Mutated in the Active Site (omega)-loop," J. Mol. Biol., 295:527-540 (2000).	
	CV	Wentworth, et al., "A Bait and Switch Hapten Strategy Generates Catalytic Antibodies for Phosphodiester Hydrolysis," Proc. Natl. Acad. Sci. USA, 95:5971-5975 (1998).	
	CW	Wirsching, et al., "Reactive immunization," Science, 270:1775-1782 (1995).	

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Attorney Docket No.: COTH-P02-514

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